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Abstract

An execution device executes an application program created in an object-oriented language. An application includes one or more classes that each have one or more methods, and confidentiality information that expresses whether or not confidentiality is necessary.

The execution device determines whether or not encryption is necessary, with reference to the confidentiality information, and when the method is to be executed, records, in a memory, an object including data that the method manipulates. When it is determined that encryption is necessary, the object is recorded with the data encrypted.